



CTTSO

Combating Terrorism Technology Support Office

Chemical, Biological, Radiological, and Nuclear Countermeasures



NIOSH DREAM Workshop

13 Nov. 2008

Dr. Rebecca Blackmon

CBRNC Subgroup



TSWG Mission

- **Mission:** Conduct the U.S. national interagency research and development program for Combating Terrorism through rapid research, development, and prototyping.
- **Objectives:**
 - Provide interagency forum to coordinate R&D requirements for combating terrorism
 - Sponsor R&D not addressed by individual agencies
 - Promote information transfer



**COORDINATOR FOR
COUNTERTERRORISM**

**Oversight
DOS**

**Executive
Program Direction
ASD (SO/LIC & IC)**

**Technical Chairs
DoD DOE FBI**

PROGRAM MANAGEMENT

Combating Terrorism Technical Support Office (DoD)

MULTI-AGENCY MEMBER SUBGROUPS

**Blast
Effects
& Mitigation**

DOJ

**Chemical, Biological
Radiological,
& Nuclear
Countermeasures
DoD/FDA**

**Explosives
Detection**

TSA

**Improvised
Device
Defeat**

FBI

**Investigative
Support
& Forensics**

USSS

**Physical
Security**

DoD/DOE

**Surveillance,
Collection &
Operations Support**

IC

**Tactical
Operations
Support**

DOE

**Training
Technology
Development**

DoD/DHS

**VIP
Protection**

USSS



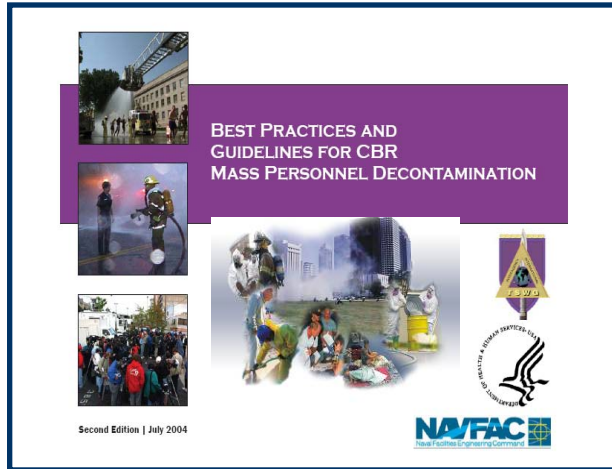
CBRNC Subgroup Mission

- Identify interagency user requirements related to terrorist-employed chemical, biological, radiological, and nuclear (CBRN) materials
- Rapid research, development, and prototyping
- **Objectives:**
 - Provide interagency forum to coordinate R&D requirements for combating terrorism.
 - Sponsor R&D not addressed by individual agencies.
 - Promote information transfer.
 - Influence basic and applied research.



CBRNC Focus Areas

Information Resources



Consequence Management



Detection



Protection





ChemSight™ TIC and CWA Warning Monitor

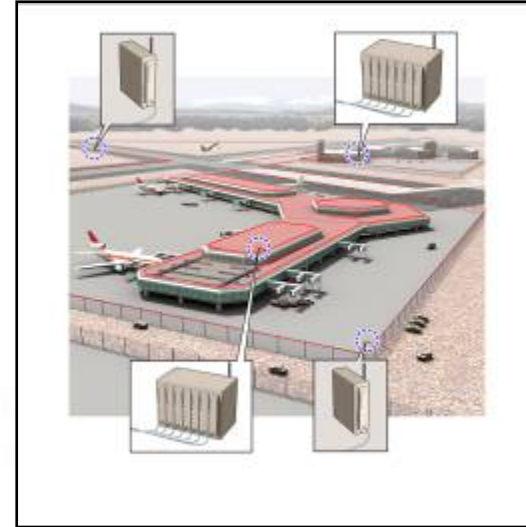


Open-path IR sensor capable of detecting airborne chemicals. Can be installed indoors or along outdoor perimeters.

Developer: Avir Sensors, LLC
<<http://www.avirsensors.com/>>



Distributed Chemical Sensor (DICAST[®])

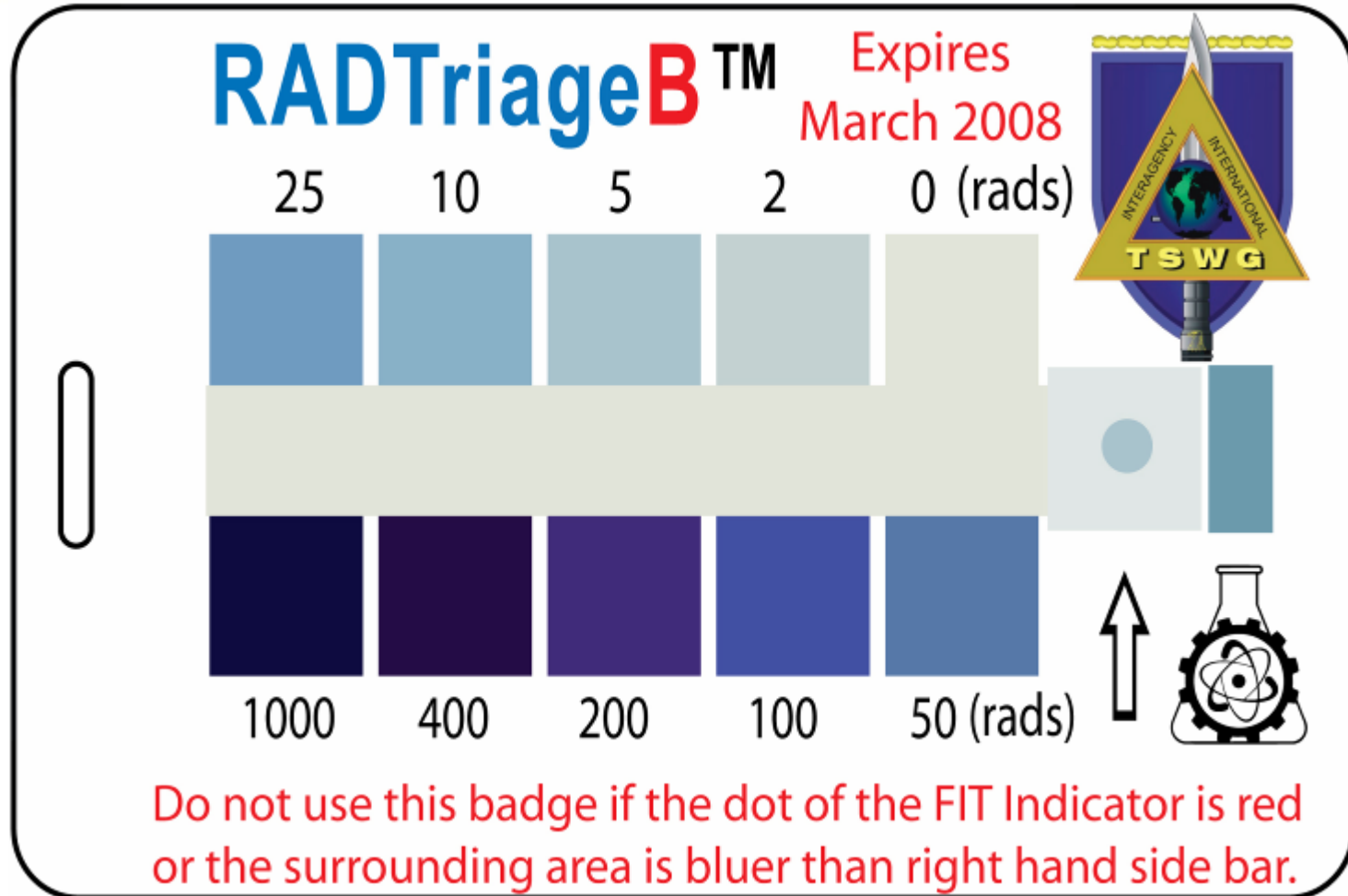


Monitor large areas, such as buildings and installation perimeters for chemical warfare agents and toxic industrial chemicals.

Developer: Intelligent Optical Systems, Inc.
<<http://www.intopsys.com/index.html>>



Radiation Detection/Triage for Decon



Developer: JP Laboratories, Inc.

<http://www.sirad-usa.com/html/radtriage.html>



Ocular Scanner



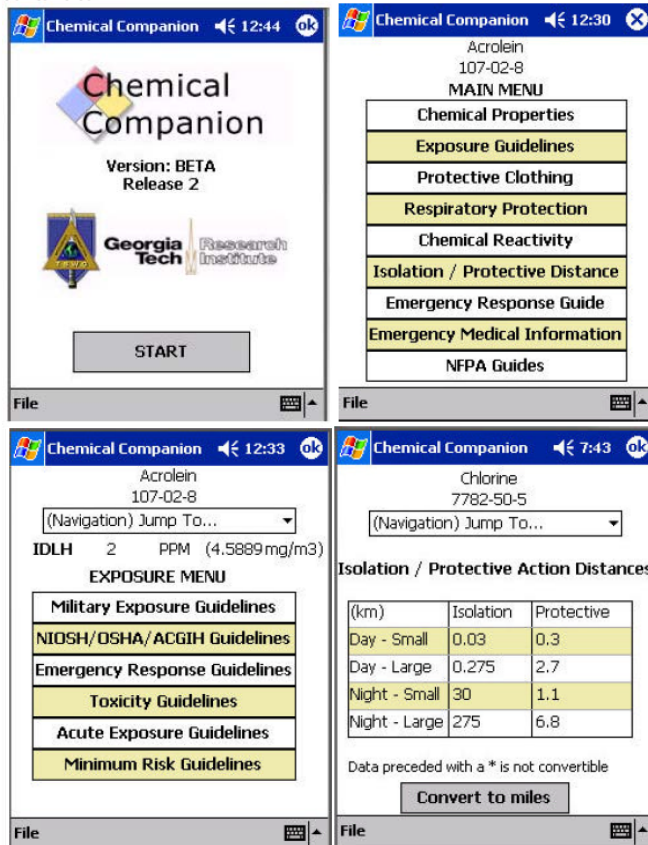
Portable and automated triage tool for non-invasive assessment of exposure.

- Assess exposure in five seconds or less.
- Detects changes in visible light spectrum of arterial and venous blood and iris response.

Developer: EyeMarker Systems, Inc. <<http://eyemarker.com/>>



Chemical Companion



An emergency response tool that provides incident-site hazard analysis.

- Exposure guidelines for chemicals
- Identifies suitable PPE
- Establishes failure/breakthrough times of filters & PPE
- Rapidly assesses stay time vs. risk to personnel

Developer: Georgia Tech Research Institute; info at:

<<http://www.chemicalcompanion.org>>



Summary

- Forum to identify, prioritize, resolve, and fund operational needs/requirements
- Driven by interagency user elements
- Acquisition/dual-use/commercialization



Contact Information

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